JAVA Basic Practice Questions

1.

Write a Java program to check if a given number is an Armstrong number or not.

Here's an example of the expected input and output:

Input number: 153

Output: "Yes, the number is an Armstrong number."

2.

Write a Java program to implement a simple calculator. The program should prompt the user to enter two numbers and an

operator (+, -, *, or /) and then perform the corresponding operation and display the result.

For example, if the user enters 4, 5, and +, the program should display 9 as the result. Similarly, if the user enters 10, 3,

and *, the program should display 30 as the result.

Your program should handle invalid inputs gracefully, for example, if the user enters an operator that is not one of the four

allowed operators or if the user enters non-numeric inputs.

3.

Find Characters of a string at odd index

Arijit = rjt

priyanka = ryna

4.

Find occurance of a character in a string

Input

Priyanka

a

Output

2

5.

Count the number of words in a sentence that contain at least two consecutive vowels (a, e, i, o, u) in them.

Here's a sample input and output:

Input: I enjoy eating spaghetti and meatballs for dinner

Output: 2

Explanation: There are two words in the sentence that contain at least two consecutive vowels - "enjoy" and "meatballs".

6.

Write a Java program that takes a user input integer n and prints the Fibonacci series up to n.

The Fibonacci series is a series of numbers in which each number is the sum of the two preceding numbers.

The first two numbers in the series are 0 and 1. For example, the first 10 numbers in the Fibonacci series are:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

The program should use a for loop to generate the series.

Sample Input:

20

Sample Output:

0 1 1 2 3 5 8 13

Explanation:

The Fibonacci series up to 20 is: 0, 1, 1, 2, 3, 5, 8, 13. Therefore, the output is "0 1 1 2 3 5 8 13".

7.

Write a Java program to find the first non-repeated character in a given string.

Here's an example of the expected input and output:

Input string: "minimum"

Output: "n"

8.

Find the palindrome words from the sentence and print them and also count

Input:

My name is nitin and I can speak malayalam

Output:

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nitin

I

malayalam

3

9.

Count the number of words in a sentence that start and end with the same letter.

Input: Anna asked about the Ginseng recipe

Output: 2

Explanation: There are two words in the sentence that start and end with the same letter - "Anna" and "Ginseng".

10.

Count the sum of prime digits in a given number

Input: 2345678910

Output: 17

Explaination: 2+3+5+7 = 17